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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/711,024	08/18/2004	Masaki Morimatsu	SIMTEK6935	5023	
25776	7590 01/04/2006		EXAMINER		
ERNEST A. BEUTLER, ATTORNEY AT LAW			LAM, THANH		
10 RUE MAI	ARSEILLE BEACH, CA 92660		ART UNIT	PAPER NUMBER	
TIE WI OICI DEFICII, OII 72000			2834		
				DATE MAILED: 01/04/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

EL

	Application No.	Applicant(s)				
Office Action Cumment	10/711,024	MORIMATSU, MASAKI				
Office Action Summary	Examiner	Art Unit				
	Thanh Lam	2834				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period we Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	66(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days fill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 26 Oc	ctober 2005.	•				
2a) ☐ This action is FINAL . 2b) ☐ This	This action is FINAL . 2b) This action is non-final.					
3) Since this application is in condition for allowan	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-20 is/are pending in the application.	4) Claim(s) 1-20 is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) 1-20 is/are rejected.	☑ Claim(s) <u>1-20</u> is/are rejected.					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.	·				
Application Papers						
9) The specification is objected to by the Examiner	· ·					
10) The drawing(s) filed on is/are: a) acce	epted or b) \square objected to by the E	Examiner.				
Applicant may not request that any objection to the o	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction		` ,				
11) The oath or declaration is objected to by the Exa	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
 12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents 	have been received.					
2. Certified copies of the priority documents	• • • • • • • • • • • • • • • • • • • •					
3. Copies of the certified copies of the priori		ed in this National Stage				
application from the International Bureau * See the attached detailed Office action for a list of		_1				
* See the attached detailed Office action for a list of	une cerunea copies not receive	u.				
Attaches = #4(c)						
Attachment(s) 1) Notice of References Cited (PTO-892)	A) Tatangaw Summan	(PTO_413)				
2) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	· ·				
	<u> </u>					

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DETAILED ACTION

Response to Arguments

- 1. Applicant's arguments filed 10/26/05 have been fully considered but they are not persuasive.
- 2. In response to applicant's argument that cited reference 6534880 does not show "an integral construction", the Examiner submits that the cited reference 6534880 clearly shown the an integral portion (52,53) as indicated the office action.

Regarding to features "the integral construction or portion to be <u>harden</u>", the Examiner submits that cited Tajima shown the harden feature (302), the test for obviousness is not whether the features of a secondary reference may be bodily incorporated into the structure of the primary reference; nor is it that the claimed invention must be expressly suggested in any one or all of the references. Rather, the test is what the combined teachings of the references would have suggested to those of ordinary skill in the art. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981).

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1,3-5,11-15 are rejected under 35 U.S.C. 102(b) as being anticipated by Sone et al. (US 5,534,880).

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Regarding claim 1, Sone et al. disclose an electrical generator for an internal combustion engine having an engine shaft, said generator being comprised of a hub portion (54) adapted to be affixed for rotation with the engine shaft, a rotor portion integrally formed with said hub portion and having a first, integral cylindrical portion (56) extending in one axial direction therefrom for carrying a plurality of circumferentially spaced permanent magnets (58) for cooperation with a stator, and a second, integral cylindrical portion (52,53) extending in an axial direction opposite to said one axial direction for forming a race for a one way clutch (61) for rotatably coupling a starter gear to the engine shaft.

Regarding claim 3, Sone et al. disclose the hub portion has radially extending flange from which the cylindrical portions extend.

Regarding claim 4, Sone et al. disclose the cylindrical portions are radially spaced from each other.

Regarding claim 5, Sone et al. disclose the radially extending flange from which the cylindrical portions extend has a step dividing it into radially inner and outer portions.

Regarding claim 11, Sone et al. disclose permanent magnets affixed to the first, integral cylindrical portion and a one way clutch cooperating with the second, integral cylindrical portion, the hub portion being fixed for rotation with an engine shaft.

Regarding claim 12, Sone et al. disclose including a starter gear journalled on the engine shaft and coupled thereto by the one way clutch.

Regarding claim 13, Sone et al. disclose the hub portion has radially extending flange from which the cylindrical portions extend.

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Regarding claim 14, Sone et al. disclose the cylindrical portions are radially spaced from each other.

Regarding claim 15, Sone et al. disclose the radially extending flange from which the cylindrical portions extend has a step dividing it into radially inner and outer portions.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 2,6-10,16-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sone et al. in view of Tajima et al. (US 6,739,977).

Regarding claims 2,6,16, Sone et al. disclose all the aspect of the claimed invention except for the surface of one of the integral cylindrical portion is hardened.

Tajima et al. disclose a surface of one of the integral cylindrical portion is hardened (302) for purpose of strengthen the rotor.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the surface of (62) of Sone et al. to accommodate the surface is hardened as taught by Tajima et al. in order to improve the strength of the rotor.

Regarding claims 7, 17, the proposal in combination of Sone et al. and Tajima et al. disclose the surface of the second, integral cylindrical portion forming the race is hardened.

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Regarding claims 8, 18, the proposal in combination of Sone et al. and Tajima et al. disclose the surface of the radially extending flange from which the second, integral cylindrical portion extends is also hardened.

Regarding claims 9,19, the proposal in combination of Sone et al. and Tajima et al. disclose a fillet is formed at the juncture of the hardened surfaces.

Regarding claims 10,20 the proposal in combination of Sone et al. and Tajima et al. disclose the surface of the fillet is also hardened.

Conclusion

5. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanh Lam whose telephone number is (571) 272-2026. The examiner can normally be reached on tu-th 8-6.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren E. Schuberg can be reached on (571) 272-2044. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free)

Thanh Lam

Primary Examiner

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